

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-20. (Canceled).

21. (New) A transmitting apparatus that transmits pilot signals to a plurality of user equipments, the transmitting apparatus comprising:

a generator configured to generate a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively assigned to each time slot of a plurality of time slots, the pilot patterns representing an arrangement of pilot signals, at least two of the time slots being assigned different ones of the pilot patterns; and

a transmitter configured to transmit the signal to the plurality of user equipments, and to transmit the pilot signals according to the pilot patterns respectively assigned to the time slots.

22. (New) The transmitting apparatus according to claim 21, further comprising:

a selector configured to select the pilot pattern assigned to the time slot based on at least one of (A) parameters concerning interference by multipath, (B) parameters reflecting a propagation environment, and (C) parameters reflecting a delay dispersion.

23. (New) The transmitting apparatus according to claim 21, further comprising:

a multiplexer configured to multiplex the pilot signals of the pilot patterns and user data according to the pattern information to generate a multiplexed signal, wherein:

the transmitter is configured to transmit the multiplexed signal.

24. (New) The transmitting apparatus according to claim 21, wherein:

different pilot patterns are mutually different arrangement densities of the pilot signals in at least one of a frequency domain and a time domain.

25. (New) A transmitting method of transmitting pilot signals from a transmitting apparatus to a plurality of user equipments, the transmitting method comprising:

generating a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively assigned to each time slot of a plurality of time slots, the pilot patterns representing an arrangement of pilot signals, at least two of the time slots being assigned different ones of the pilot patterns; and

transmitting the pilot signals according to the pilot patterns respectively assigned to the time slots.

26. (New) The transmitting method according to claim 25, wherein:

different pilot patterns are mutually different arrangement densities of the pilot signals in at least one of a frequency domain and a time domain.

27. (New) An integrated circuit that controls transmission of pilot signals, the integrated circuit comprising:

a generator configured to control a process of generating a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively

assigned to each time slot of a plurality of time slots, the pilot patterns representing an arrangement of pilot signals, at least two of the time slots being assigned different ones of the pilot patterns; and

a controller configured to control a process of transmitting the signal to the plurality of user equipments, and transmitting the pilot signals according to the pilot patterns respectively assigned to the time slots.

28. (New) The integrated circuit according to claim 27, wherein:

different pilot patterns are mutually different arrangement densities of the pilot signals in at least one of a frequency domain and a time domain.

29. (New) A base station comprising the transmitting apparatus according to claim 21.